



# Thyroid Peroxidase(TPO) rabbit mAb(ABT45R)

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | BYab-15501  |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human   |
| <b>Applications</b>       | IHC;IF  |
| <b>Gene Name</b>          | TPO   |
| <b>Protein Name</b>       | Thyroid Peroxidase(TPO)   |
| <b>Immunogen</b>          | Synthesized peptide derived from human Thyroid Peroxidase(TPO)  |
| <b>Specificity</b>        | This antibody detects endogenous levels of Thyroid Peroxidase(TPO) at Human   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source</b>             | Polyclonal, Rabbit,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from Cell supernatant by affinity-chromatography using specific immunogen.   |
| <b>Dilution</b>           | IHC-p 1:200. IF 1:50-200  |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | ≥90%  |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           | Thyroid peroxidase (TPO;EC 1.11.1.8)  |
| <b>Observed Band</b>      |   |
| <b>Cell Pathway</b>       | Membrane; Single-pass type I membrane protein.; [Isoform 3]: Cell surface.  |
| <b>Tissue Specificity</b> | Glandular pool- thyroid,Spleen,Thyroid,   |
| <b>Function</b>           | alternative products:Additional isoforms seem to exist,catalytic activity:2 iodide + H(2)O(2) + 2 H(+) = 2 iodine + 2 H(2)O.,cofactor:Binds 1 calcium ion per heterodimer.,cofactor:Binds 1 heme B (iron-protoporphyrin IX) group covalently per heterodimer.,disease:An alternative splicing in the thyroperoxidase mRNA can cause Graves' disease.,disease:Defects in TPO are the cause of congenital hypothyroidism due to dysmorphogenesis type 2A (CHDH2A) [MIM:274500]; also called genetic defect in thyroid hormonogenesis 2A or thyroid hormone organification defect II. CHDH2A is due to defective conversion of accumulated iodide to organically bound iodine. The iodide organification defect can be partial or complete.,function:Iodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones T(3) and T(4).,online information:Thyroid peroxidase entry,pathway:Hormone b |

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## Background

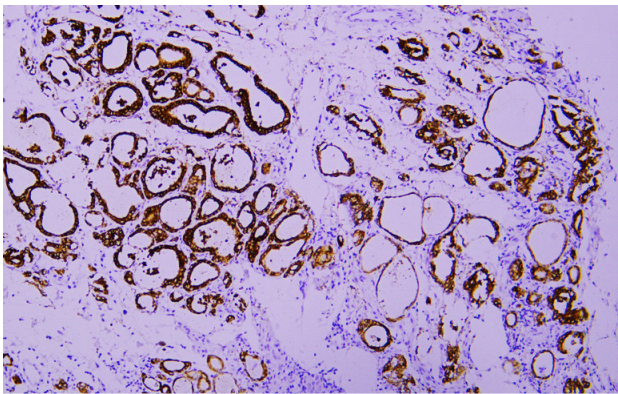
### matters needing attention

Avoid repeated freezing and thawing!

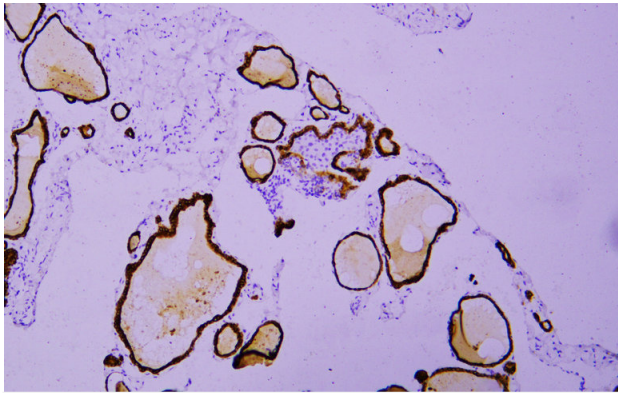
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemical analysis of paraffin-embedded human Follicular thyroid carcinoma. 1, Antibody was incubated at 4° overnight. 2, Citrate buffer of pH6.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded human Thyroid. 1, Antibody was incubated at 4° overnight. 2, Citrate buffer of pH6.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).